



Type Approval Certificate

[Auxiliaries for Fire Detection System]

Initial Approval 6 May 2008
Manufacturer Autronica Fire and Security AS
 Bromstadvegen 59, N-7047 Trondheim, Norway
Product Description Type : Fire Detection System Components

" See Appendix 1 "

Approval Condition " See Appendix 1 "

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows.

Pt. 6, Ch. 2, Art. 301 of the Rules for Classification, Steel Ships

This Certificate is valid until 6 May 2030

Issued at Busan, Korea on 2 June 2025



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "<http://e-cert.krs.co.kr>" by using the tracking No(ME25023938468) and certificate No.(CPH19730-FD004).



KOREAN REGISTER

*General Manager of
Marine & Ocean Equipment Team*

Note : 1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.
 2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
 3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
 4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

Product Description and/or Approval Condition

Date of Issue : 2 June 2025

A. Product Description

1. Product Specification

1) Product Description

Type	Description
BN-300	INPUT UNIT WITH SELFVERIFY
BN-300M	INPUT UNIT WITH SELFVERIFY
BN-310	SINGLE RELAY OUTPUT UNIT
BN-320	INTERFACE UNIT WITH SELFVERIFY
BN-320/2	INTERFACE UNIT WITH SELFVERIFY
BN-320/4	INTERFACE UNIT WITH SELFVERIFY
BN-320/5	INTERFACE UNIT WITH SELFVERIFY
BN-320/D-XS	STANDARD DOOR MONITORING / CONTROL UNIT, EXTRA SMALL
BN-320/GMU-XS	AUTROSAFE GENERAL CONTROL UNIT
BN-320/SV	STANDARD CONTROL UNIT
BN-320/FS	SPRINKLER VALVE MONITORING CONTROL UNIT
BN-500Ex	INPUT UNIT WITH SELFVERIFY
BN-303	SINGLE MONITORED INPUT UNIT
BN-304	SINGLE MONITORED INPUT/OUTPUT UNIT
BN-305	DUAL MONITORED INPUT/OUTPUT
BN-307	MONITORED FIRE ALARM DEVICE CONTROL UNIT
BNB-330A	CONVENTIONAL LOOP INTERFACE
BNB-331	CONVENTIONAL LOOP INTERFACE
BZ-500	BARRIER UNIT
BW-200	DISABLE INPUT UNIT WITH PUSHBUTTONS
BW-201	DISABLE INPUT UNIT WITH TIMER INPUT
BBR-52	SMARTBUZZER
BBR-230	SOUNDER INDOOR ADDRESSABLE
BN-342/1	POWERLOOP 4-20 mA Input Unit
BN-342/2	POWERLOOP 4-20 mA Input
BN-342/EX	POWERLOOP

2. Approved Drawings and Documents

1) Documents

- BN-300 : Doc-1000366-2, 2022-11-11
- BN-300M : Doc-1000368-1, 2021-11-02
- BN-310 : Doc-1000376-1(116-P-BN310/CGB), 2016-10-24
- BN-320, 320/2, 320/4, 320/5 : Doc-1000378-1(116-P-BN320/CGB), 2016-10-24
- BN-320/D-XS : P-BN-320DXS/CE, 2013-12-04

Product Description and/or Approval Condition

Date of Issue : 2 June 2025

- BN-320/GMU-XS	: P-BN320-GMU/CE, 2013-12-04
- BN-320/SV	: P-BN320-SV/CE, 2005-08-10
- BN-320/FS	: P-BN320-FS/CE, 2005-08-10
- BN-500/EX	: Doc-1000122-1(116-P-BN500/EX/CGB), 2019-03-27
- BN-303	: Doc-1000369-2, 2025-01-15
- BN-304	: Doc-1000372-4, 2025-01-15
- BN-305	: Doc-1000374-2, 2025-01-15
- BN-307	: Doc-1000375-3, 2021-06-09
- BNB-330A	: Doc-1000393-1(116-BNB330A/CGB), 2016-04-13
- BNB-331	: Doc-1000394-1(116-BNB331/CGB), 2015-07-07
- BZ-500	: Doc-1000129-2, 2021-12-06
- BW-200	: Doc-1000556-1(116-P-BW200/CGB), 2009-07-01
- BW-201	: Doc-1000558-1(116-P-BW201/CGB), 2009-07-09
- BBR-52	: Doc-1003549-1(116-P-BBR52-AS4/CGB), 2016-06-29
- BBR-230	: Doc-1000286-3, 2021-05-19
- BN-342/1	: Doc-1000387-1(116-P-BN342/1/CGB), 2014-03-11
- BN-342/2	: Doc-1000389-1(116-P-BN342/2/CGB), 2014-03-11
- BN-342/EX	: Doc-1000390-2(116-BN342EX/CGB), 2020-08-19

3. Test Reports, etc.

1) Test Reports

- DNV 98-1390 (Rev. 01), C-240, 99-1491 (Rev. 02), C-265, 2000-1178 (Rev. 02), C-268, 2002-3146 (Rev. 01), 2001-3250 (Rev. 01), 2001-3416 (Rev. 01), 2003-3169 (Rev. 02), 2004-3541 (Rev. 01), 2010-3107 (Rev. 01)
- Nemko 187264, 187265, 187266, 187267, 187270, 187271, E12044.00, E18217.00
- CNPP 08 00 74 A, 08 00 74

2) Ex-proof Certificates

- BN500/Ex : IECEx NEM 11.0009X, Nemko 03ATEX218X
- BN342/Ex : Nemko 03ATEX222

B. Approval Condition

1. Application & Limitation

- 1) This approval is granted on the basis of the test reports and the approved documentation.
- 2) Degree of protection is to be complied with Rule Pt.6 Ch.1 Sec.2 201.2. (5).
- 3) The manufacturer is to inform this Society of all kinds of revisions of the equipment including the major changes of software. If the changes are recognized to affect functionality of the approved equipment, type tests to confirm the reliability of the revised equipment may be performed in the presence of our surveyor.
- 4) Explosion-proof certification by a notified/recognized Certification Body is not covered by this certificate. Ratings and Special Conditions for Safe Use in hazardous areas are to be obtained from the relevant valid Ex-Certificate.
- 5) Unless specifically directed by the Administration, this approval should not be interpreted as a replacement for approval from the flag Administration. This certificate may not be used for Korea flagged vessels.
- 6) When this system is to be installed in the vicinity of a standard or a steering magnetic compass, it should have a minimum safe distance of 5 m or more at which it may be mounted from such compasses.

2. Individual Product Cert. and Drawing Approval Requirement

- 1) Individual Product Certification is not required.

3. Marking

- 1) The product or packing is to be marked with the manufacturer's name and type designation on a suitable position.

4. Others

N/A